

## CLAIMS

1. A method of RNA purification, comprising adding ammonium sulfate to a composition comprising RNA, where the final concentration of ammonium sulfate in the composition is below 20 g / 100 mL.

2. A method of RNA purification, comprising adding ammonium sulfate to a composition comprising RNA, where the final concentration of ammonium sulfate in the composition is about 1-64 mM.

3. The method of RNA purification according to claim 2, where the final concentration of ammonium sulfate in the composition is about 5-32 mM.

4. The method of RNA purification according to claim 2, where the final concentration of ammonium sulfate in the composition is about 10 mM.

5. The method of claims 1 or 2 wherein the composition further comprises a contaminant selected from RNA binding agents.

6. The method of claims 1 or 2 wherein the composition further comprises a polyamine as a contaminant.

7. The method of claims 1 or 2 wherein the composition further comprises a polyamine contaminant selected from spermine, spermidine, and putresceine.

8. The method of claims 1 or 2 wherein the composition further comprises cationic detergent as a contaminant.

9. The method of claims 1 or 2 wherein the composition further comprises a nucleic acid dye as a contaminant.

10. The method of claims 1 or 2 wherein the composition further comprises actinomycin as a contaminant.

11. The method of claims 1 or 2 wherein the composition further comprises a nucleic acid dye as a contaminant and the nucleic acid dye is ethidium bromide or SybrGreen™ dye.

12. The method of claims 1 or 2 wherein the composition further comprises charged polysaccharide as a contaminant.

13. The method of claims 1 or 2 wherein the composition further comprises glycoprotein as a contaminant.

14. The method of claims 1 or 2 wherein the composition further comprises a nucleophile as a contaminant.